

## CLAIMS:

1. An electronic component with a dielectric and at least one electrode, characterized in that the dielectric comprises a composite consisting of a dielectric ceramic material and an organic polymer.
2. An electronic component as claimed in claim 1, characterized in that the organic polymer is insoluble in water.
3. An electronic component as claimed in claim 1, characterized in that the polymer comprises a polyimide, polyethylene, polycarbonate, or polyurethane.
4. An electronic component as claimed in claim 1, characterized in that the dielectric ceramic material has a low temperature coefficient.
5. An electronic component as claimed in claim 1, characterized in that the electrodes comprise Ag, Au, Cu, Al, or alloys of these metals.
6. An electronic component as claimed in claim 1, characterized in that the electronic component is chosen from the group comprising capacitors, antennas, actuators, and varistors.
7. A method of manufacturing an electronic component with a dielectric and at least two electrodes, which method is characterized in that
- the dielectric ceramic material and a monomer of a polymer are mixed together,
  - the mass obtained is formed,
  - the monomer is partly or completely polymerized, and
  - the electrodes are provided.

8. A method as claimed in claim 7, characterized in that a second polymerization step is carried out after the electrodes have been provided.
9. A method as claimed in claims 7 and 8, characterized in that the  
5 polymerization is thermally initiated.
10. A method as claimed in claims 7 and 8, characterized in that the quantity  $m$  of monomer used lies between 3% by weight  $\leq m \leq 20\%$  by weight in relation to the quantity of dielectric ceramic material used.
- 10 11. A dielectric ceramic compound, characterized in that it comprises a composite of a dielectric ceramic material and an organic polymer.
12. A filter arrangement with an electronic component which comprises a  
15 dielectric and at least two electrodes, characterized in that the dielectric comprises a composite of a dielectric ceramic material and an organic polymer.